

848 Material Safety Data Sheet

Functional Group ID=**MS**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Material Safety Data Sheet Transaction Set (848) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to communicate chemical characteristics, hazards, and precautions for the safe handling and use of a material. The transaction set is intended to convey the information required for a Material Safety Data Sheet (MSDS) as defined by the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910.1200 in the United States, and Workplace Hazardous Materials Information System (WHIMS) in Canada, and various state, province, and local requirements under right-to-know legislation. The MSDS provides the receiver with detailed information concerning material identity, emergency response, chemical and physical characteristics, toxicology, and industrial hygiene procedures. State and federal law dictate who is obligated to provide the MSDS and to whom it should be issued. In addition, third-party providers or others with no statutory obligation may voluntarily provide an MSDS to anyone. This transaction set allows for transmission of MSDS data in a structured, unstructured, or semi-structured form. **CAUTION:** With this transaction set, text format is critical due to the MSDS's primary role as a vehicle for hazards communication. The risk if this information is not transmitted clearly and accurately could be harmful to human life, harmful to the environment, could cause mishandling of product, could result in regulatory non-compliance, and could result in liability. Trading partners need to agree on how to interpret, store, and display/print MSDS text, especially text contained in the MSG and SD1 segments. For example, a sender may wish to format text so that one print line is mapped to one MSG segment. Segment terminator and data element delimiter characters shall not appear in any MSDS data. **WARNING:** Alteration of the original document will occur if the EDI translator or application software converts characters to uppercase. This may adversely affect the appearance, effectiveness, clarity, readability, and communicability of the printed MSDS document.

Notes:

- 1. Organizations use this transaction set to request a Material Safety Data Sheet (MSDS).*
- 2. This transaction set may be used to request multiple MSDSs for items in the same solicitation or award instrument.*
- 3. Requested MSDSs are to be submitted in the English language unless otherwise specified. If the MSDS is to be submitted in a language other than English, the language will be identified in BMS03. Use multiple transactions to request the MSDS in more than one language.*

Heading:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
4	010	ST	Transaction Set Header	M	1		
5	020	BMS	Beginning Segment For Material Safety Data Sheet	M	1		

848R - Material Safety Data Sheet (Request)

Not Used	030	NTE	Note/Special Instruction	O	>1
7	040	REF	Reference Identification	O	>1
9	050	DTM	Date/Time Reference	O	>1
LOOP ID - N1					>1
11	060	N1	Name	O	1
Not Used	070	N2	Additional Name Information	O	>1
Not Used	080	N3	Address Information	O	>1
Not Used	090	N4	Geographic Location	O	1
Not Used	100	REF	Reference Identification	O	>1
13	110	PER	Administrative Communications Contact	O	>1

Detail:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - LIN						999999	
15	010	LIN	Item Identification	M	1		n1
20	020	PID	Product/Item Description	O	>1		
LOOP ID - MSS						>1	
Not Used	030	MSS	Material Safety Data Sheet Section Information	O	1		n2
Not Used	040	MEA	Measurements	O	>1		
Not Used	050	MSG	Message Text	O	>1		n3
LOOP ID - SD1						>1	
Not Used	060	SD1	Safety Data	O	1		n4
Not Used	070	MEA	Measurements	O	>1		
Not Used	072	PKG	Marking, Packaging, Loading	O	>1		
Not Used	074	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	>1		
Not Used	080	MSG	Message Text	O	>1		n5
LOOP ID - CID						>1	
Not Used	100	CID	Characteristic/Class ID	O	1		
Not Used	110	MEA	Measurements	M	>1		
LOOP ID - LX						>1	
Not Used	115	LX	Assigned Number	O	1		
Not Used	120	CID	Characteristic/Class ID	O	1		
Not Used	130	MEA	Measurements	O	>1		
Not Used	140	STA	Statistics	O	1		
Not Used	150	TMD	Test Method	O	1		
Not Used	160	MSG	Message Text	O	>1		
LOOP ID - SD1						>1	
Not Used	170	SD1	Safety Data	O	1		
Not Used	180	MEA	Measurements	O	>1		
Not Used	182	PKG	Marking, Packaging, Loading	O	>1		
Not Used	184	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	>1		
Not Used	190	MSG	Message Text	O	>1		
LOOP ID - CID						>1	

Not Used	210	CID	Characteristic/Class ID	O	1					
Not Used	220	MEA	Measurements	M	>1					

Summary:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Not Used	010	CTT	Transaction Totals	O	1		n6
22	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. LIN loop is product level. MSS is section level. The first SD1 loop is safety data relating to the section only. The first CID loop is for complex measurements on safety data. LX loop is used to specify product characteristics, components, or complex measurements (i.e., those with environmental parameters). The second SD1 loop is safety data relating to a particular product characteristic or component. The second CID loop is for complex measurements on safety data, which related to a particular product characteristic or component.
2. Regulation notifications can be contained in MSS or SD1 or both.
3. Trading partners must agree on a convention for text processing that will not split words, and which can convey correct meaning, in successive SD1 or MSG segments.
4. Regulation notifications can be contained in MSS or SD1 or both.
5. Trading partners must agree on a convention for text processing that will not split words, and which can convey correct meaning, in successive SD1 or MSG segments.
6. The number of line items (CTT01) is the accumulation of the number of LIN segments. Hash total (CTT02) is not used in this transaction set.

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
Must Use	ST01	143 Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set	
		848 Material Safety Data Sheet	
Must Use	ST02	329 Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
		<i>A unique number assigned by the originator of the transaction set, or the originator's application program.</i>	

Segment: **BMS** Beginning Segment For Material Safety Data Sheet
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of the Material Safety Data Sheet Transaction Set, identify the distinct type of report, and transmit key identifying numbers and dates relating to that report

Syntax Notes:

- Semantic Notes:**
- 1 BMS02 specifies date the report is effective (YYMMDD).
 - 2 BMS04 specifies sender's report identifier.
 - 3 BMS05 indicates the chronological sequence of this revision.
 - 4 BMS08 specifies the state or province for ultimate receipt of this report.
 - 5 BMS09 specifies the country for ultimate receipt of this report.

- Comments:**
- 1 If BMS01 is code "05" and BMS04 is used, then BMS06, if used, must identify the previous version of this report which is being replaced.
 If BMS01 is code "05" and BMS05 is used, then BMS07, if used, must identify the previous version of this report which is being replaced.
 - 2 BMS03 specifies the language of the text information in the Material Safety Data Sheet (MSDS).

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
Must Use	BMS01	353 Transaction Set Purpose Code Code identifying purpose of transaction set	M ID 2/2
		00 Original <i>Use to indicate an original request for an MSDS.</i>	
		01 Cancellation <i>Use to indicate a cancellation of a previous request for an MSDS</i>	
		07 Duplicate <i>Use to indicate a duplicate transmission of a previously transmitted request for an MSDS.</i>	
Must Use	BMS02	373 Date Date expressed as CCYYMMDD <i>Use to identify the date of the request</i>	M DT 8/8
	BMS03	819 Language Code Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639) <i>Use to identify a language other than English in which the requested MSDS is to be submitted.</i>	O ID 2/3

	BMS04	127	Reference Identification	O AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			<i>Use to provide a unique reference number that identifies this transaction set.</i>	
Not Used	BMS05	796	Revision Value	O AN 1/30
			Revision or engineering change level of the data items referred to by the specification number	
Not Used	BMS06	127	Reference Identification	O AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	BMS07	796	Revision Value	O AN 1/30
			Revision or engineering change level of the data items referred to by the specification number	
Not Used	BMS08	156	State or Province Code	O ID 2/2
			Code (Standard State/Province) as defined by appropriate government agency	
Not Used	BMS09	26	Country Code	O ID 2/3
			Code identifying the country	

Segment: **REF** Reference Identification

Position: 040

Loop:

Level: Heading

Usage: Optional

Max Use: >1

Purpose: To specify identifying information

- Syntax Notes:**
- 1 At least one of REF02 or REF03 is required.
 - 2 If either C04003 or C04004 is present, then the other is required.
 - 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: 1 REF04 contains data relating to the value cited in REF02.

Comments:

Notes: *Use this segment to provide reference numbers applicable to this request.*

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u> <u>Name</u>	
Must Use	REF01 128 Reference Identification Qualifier	M ID 2/3
	Code qualifying the Reference Identification	
	2G Amendment	<i>Use to indicate an amendment to a solicitation. When used, another REF segment must be transmitted citing code KS in REF01.</i>
	C4 Change Number	<i>Use to cite the contract modification number, as required. When used, another REF segment must be transmitted citing code CT in REF01. If the modification is to a call, release or delivery order, additionally transmit a REF segment citing code DO in REF01.</i>
	CR Customer Reference Number	<i>Use to identify a control number other than a contract instrument. Cite the type of number in REF03.</i>
	CT Contract Number	<i>Use to indicate the award instrument number. This is always the Procurement Instrument Identification Number (PIIN) for DoD or an equivalent number for Civilian Agencies.</i>
	DO Delivery Order Number	<i>Use to indicate a call, release or delivery order number. When used, another REF segment must be transmitted citing code CT in REF01.</i>
	KS Solicitation	

A discreet number assigned by the purchasing activity to differentiate between different solicitations

Use to indicate the solicitation number which contains the item for which the MSDS is requested.

PR

Price Quote Number

Use to indicate the contractor's price quote number applicable to the solicitation.

	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			<i>Cite all numbers as continuous numbers without extraneous characters.</i>	
	REF03	352	Description	X AN 1/80
			A free-form description to clarify the related data elements and their content	
			<i>Use to identify the type of control number when REF01 is code CR.</i>	
Not Used	REF04	C040	Reference Identifier	O
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	
Not Used	C04001	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
Not Used	C04002	127	Reference Identification	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	C04003	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
Not Used	C04004	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
Not Used	C04005	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
Not Used	C04006	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **DTM** Date/Time Reference

Position: 050

Loop:

Level: Heading

Usage: Optional

Max Use: >1

Purpose: To specify pertinent dates and times

- Syntax Notes:**
- 1 At least one of DTM02 DTM03 or DTM05 is required.
 - 2 If DTM04 is present, then DTM03 is required.
 - 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes: *Use this segment to identify the date by which the MSDS must be received. This segment can also be used to identify the date of issuance of a specific MSDS that is being requested.*

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
Must Use	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
		102	Issue	
			<i>Use to indicate the date of issuance of a specific MSDS that is being requested.</i>	
		106	Required By	
			<i>Use to indicate the date by which the MSDS must be received.</i>	
		600	As Of	
			<i>Use only to indicate a request for a previous version of an MSDS when the exact date of preparation is unknown. The date represents a request for MSDSs prepared on or before the given date.</i>	
	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	
Not Used	DTM03	337	Time	X TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	
Not Used	DTM04	623	Time Code	O ID 2/2
			Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time;	

since + is a restricted character, + and - are substituted by P and M in the codes that follow

Not Used	DTM05	1250	Date Time Period Format Qualifier	X	ID 2/3
			Code indicating the date format, time format, or date and time format		
Not Used	DTM06	1251	Date Time Period	X	AN 1/35
			Expression of a date, a time, or range of dates, times or dates and times		

Segment: **N1** Name
Position: 060
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.
Notes: *Two iterations of this loop are REQUIRED to identify the "From" party (requester) and the "To" party (recipient). Use additional iterations of this loop as needed to identify parties to receive the MSDS (if other than the "From" party).*

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
Must Use	N101	98	Entity Identifier Code	M ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual	
		FR	Message From	
			<i>Use to indicate the party sending the request.</i>	
		PK	Party to Receive Copy	
			<i>Use to identify the recipient activities in addition to the requesting activity (Code FR).</i>	
		TO	Message To	
			<i>Use to indicate the party to whom the request is being sent.</i>	
		ZD	Party to Receive Reports	
			The organization designated to receive reports	
			<i>Use to identify the recipient activities if other than the requesting activity (Code FR). Do not provide copies to the requesting activity.</i>	
Not Used	N102	93	Name	X AN 1/60
			Free-form name	
	N103	66	Identification Code Qualifier	X ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)	
			<i>While the federal EDI program uses the DUNS number, some</i>	

government users of this implementation convention may require the use of other numbers for a transition period in order to cross reference existing data bases.

- 1 D-U-N-S Number, Dun & Bradstreet
Use of the DUNS or DUNS+4 number is preferred over any other coded number to identify an entity.
- 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix
Use of the DUNS or DUNS+4 number is preferred over any other coded number to identify an entity.
- 10 Department of Defense Activity Address Code (DODAAC)
Use to indicate either a Department of Defense Activity Address Code or a Civilian Agency Activity Address Code.
- 33 Commercial and Government Entity (CAGE)
- FI Federal Taxpayer's Identification Number

	N104	67	Identification Code	X	AN 2/80
			Code identifying a party or other code		
Not Used	N105	706	Entity Relationship Code	O	ID 2/2
			Code describing entity relationship		
Not Used	N106	98	Entity Identifier Code	O	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual		

Segment: **PER Administrative Communications Contact**
Position: 110
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: >1
Purpose: To identify a person or office to whom administrative communications should be directed

- Syntax Notes:**
- 1 If either PER03 or PER04 is present, then the other is required.
 - 2 If either PER05 or PER06 is present, then the other is required.
 - 3 If either PER07 or PER08 is present, then the other is required.

Semantic Notes:

Comments:

Notes: *When N101 is code FR, use to identify a contact to whom inquiries regarding this request can be directed.*

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
Must Use	PER01	366	Contact Function Code	M ID 2/2
			Code identifying the major duty or responsibility of the person or group named	
			IC Information Contact	
	PER02	93	Name	O AN 1/60
			Free-form name	
			<i>Use to indicate the name of the person or office. Last name first, followed by first name is preferred. If the whole name exceeds 35 characters, use the initial of the first name.</i>	
	PER03	365	Communication Number Qualifier	X ID 2/2
			Code identifying the type of communication number	
			EM Electronic Mail	
			FX Facsimile	
			IT International Telephone	
			TE Telephone	
			<i>Use to indicate the commercial telephone number of the party cited in PER02.</i>	
	PER04	364	Communication Number	X AN 1/80
			Complete communications number including country or area code when applicable	
			<i>1. When PER03 is code FX, IT, or TE, include the area code.</i>	
			<i>2. Cite all numbers, other than those qualified by code EM, as continuous numbers without extraneous characters.</i>	
	PER05	365	Communication Number Qualifier	X ID 2/2

Segment: **LIN** Item Identification

Position: 010

Loop: LIN Mandatory

Level: Detail

Usage: Mandatory

Max Use: 1

Purpose: To specify basic item identification data

Syntax Notes:

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes:

- 1 LIN01 is the line item identification

Comments:

- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: *Use to identify the line item for which the MSDS is requested.*

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
LIN01	350	Assigned Identification	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
		<p><i>1. When applicable, use to identify the Contract Line Item Number (CLIN) or Subcontract Line Item Number (SUBCLIN), within the solicitation or award instrument, that identifies the item for which the MSDS is requested.</i></p> <p><i>2. If a CLIN or SUBCLIN is not applicable, do not use this data element.</i></p>	
Must Use	LIN02	235 Product/Service ID Qualifier	M ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		<p><i>1. Use to identify the product for which the MSDS is requested.</i></p>	

2. Use one of the following codes in the LIN02/03 data element pair to identify the material. Use any code in subsequent data element pairs to further identify the material as needed.

A2	Department of Defense Identification Code (DoDIC) Qualifies a code that uniquely identifies a type of explosive or ammunition
BN	Bar-Coded Serial Number
BP	Buyer's Part Number
CN	Commodity Name <i>Use to indicate a plain text name or description of the item.</i>
CO	Chemical Abstract Service (CAS) Registry Number
FS	National Stock Number <i>The National Stock Number (NSN) shall be transmitted without dashes.</i>
IN	Buyer's Item Number
LT	Lot Number
MF	Manufacturer <i>When used, cite the DUNS number of the manufacturer in the following data element.</i>
MG	Manufacturer's Part Number <i>When used a second 235/234 pair must be used citing either code MF or ZB.</i>
MN	Model Number
UK	U.P.C./EAN Shipping Container Code (1-2-5-5-1) A 14-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator and check digit; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, the second five digits are the item code, and the final digit is the check digit
UP	U.P.C. Consumer Package Code (1-5-5-1)
VB	Vendor's Engineering Change Level Number
VN	Vendor's (Seller's) Item Number
VP	Vendor's (Seller's) Part Number <i>Use to indicate a part number assigned by a contractor other than a manufacturer.</i>
ZB	Commercial and Government Entity (CAGE) Code A code that identifies a commercial contractor authorized to do business with the U.S. government <i>Use to indicate a manufacturer who can be identified by a CAGE code.</i>

Must Use	LIN03	234	Product/Service ID	M AN 1/48
			Identifying number for a product or service	
	LIN04	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	LIN05	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	
	LIN06	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	LIN07	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	
	LIN08	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	LIN09	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	
	LIN10	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	LIN11	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	
	LIN12	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	LIN13	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	
	LIN14	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	LIN15	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	
	LIN16	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			Refer to 004010 Data Element Dictionary for acceptable code values.	

LIN17	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
LIN18	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
LIN19	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
LIN20	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
LIN21	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
LIN22	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
LIN23	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
LIN24	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
LIN25	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
LIN26	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
LIN27	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
LIN28	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
LIN29	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	
LIN30	235	Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	

Refer to 004010 Data Element Dictionary for acceptable code values.

LIN31	234	Product/Service ID	X AN 1/48
		Identifying number for a product or service	

Segment: **PID** Product/Item Description
Position: 020
Loop: LIN Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To describe a product or process in coded or free-form format

- Syntax Notes:**
- 1 If PID04 is present, then PID03 is required.
 - 2 At least one of PID04 or PID05 is required.
 - 3 If PID07 is present, then PID03 is required.
 - 4 If PID08 is present, then PID04 is required.
 - 5 If PID09 is present, then PID05 is required.

- Semantic Notes:**
- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
 - 2 PID04 should be used for industry-specific product description codes.
 - 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
 - 4 PID09 is used to identify the language being used in PID05.

- Comments:**
- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
 - 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
 - 3 PID07 specifies the individual code list of the agency specified in PID03.

Notes: *Use this segment only if the product applicable to the MSDS cannot be adequately identified by a code value cited in the LIN segment.*

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
Must Use	PID01	349 Item Description Type	M ID 1/1
		Code indicating the format of a description	
		F Free-form	
	PID02	750 Product/Process Characteristic Code	O ID 2/3
		Code identifying the general class of a product or process characteristic	
		08 Product	
		<i>Use to indicate a complete set or kit. When used, provide a general description, including the intended use, of the set or kit in PID05.</i>	
		09 Sub-product	
		<i>Use to indicate a component of a kit and provide a description of the component in PID05.</i>	
		SYN Synonym	
		<i>Use to indicate another name under which the product is sold.</i>	

		TRN	Trade Name	
			<i>Use to indicate the brand name under which the product is sold.</i>	
Not Used	PID03	559	Agency Qualifier Code Code identifying the agency assigning the code values	X ID 2/2
Not Used	PID04	751	Product Description Code A code from an industry code list which provides specific data about a product characteristic	X AN 1/12
	PID05	352	Description A free-form description to clarify the related data elements and their content <i>Use to identify, in free form text, the product applicable to the requested MSDS.</i>	X AN 1/80
Not Used	PID06	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O ID 2/2
Not Used	PID07	822	Source Subqualifier A reference that indicates the table or text maintained by the Source Qualifier	O AN 1/15
Not Used	PID08	1073	Yes/No Condition or Response Code Code indicating a Yes or No condition or response	O ID 1/1
Not Used	PID09	819	Language Code Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)	O ID 2/3

Segment: **SE** Transaction Set Trailer
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: 1 SE is the last segment of each transaction set.

Data Element Summary

	Ref.	Data		
	<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Must Use	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			<i>Cite the same number as the one cited in ST02.</i>	